

Leavenworth County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 19 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Leavenworth County economy.¹

These 19 sectors have a total direct output of approximately **\$132.6 million** and support **1,646 jobs** in Leavenworth County. Running the model for all 19 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Leavenworth County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	1645.6	4.41%	\$43,443,093	1.35%	\$132,550,143	4.11%
Indirect Effect	308.9	0.83%	\$10,830,498	0.34%	\$21,000,693	0.65%
Induced Effect	83.0	0.22%	\$5,812,556	0.18%	\$10,930,255	0.34%
Total Effect	2037.5	5.46%	\$60,086,147	1.87%	\$164,481,091	5.11%

As shown in the above table, agriculture, food, and food processing sectors support **2,038 jobs**, or **5.46%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$164.5 million**, roughly **5.11% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 19 agriculture, food, and food processing sectors is approximately **\$60.1 million**, or **1.87% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **1.87% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

1 Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

2 Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

3 Value added = labor income + indirect business taxes + other property type income.

4 GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

5 Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **673 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Leavenworth County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	672.8	\$20,051,164
Landscape and horticultural services	303.2	\$14,565,957
Support activities for agriculture and forestry	211.0	\$5,474,068
All other crop farming	117.2	\$2,367,427
All other food manufacturing	107.2	\$38,781,458
Veterinary services	88.7	\$9,178,198
Grain farming	66.8	\$6,451,363
Oilseed farming	64.0	\$17,734,106
Bread and bakery product, except frozen, manufacturing	62.5	\$9,081,293
Greenhouse, nursery, and floriculture production	55.6	\$4,720,575

The all other food manufacturing sector directly contributes approximately **\$38.8 million** to the Leavenworth County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
All other food manufacturing	107.2	\$38,781,458
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	672.8	\$20,051,164
Oilseed farming	64.0	\$17,734,106
Landscape and horticultural services	303.2	\$14,565,957
Veterinary services	88.7	\$9,178,198
Bread and bakery product, except frozen, manufacturing	62.5	\$9,081,293
Grain farming	66.8	\$6,451,363
Support activities for agriculture and forestry	211.0	\$5,474,068
Greenhouse, nursery, and floriculture production	55.6	\$4,720,575
Real estate	16.5	\$3,786,008

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Leavenworth County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	64.0	\$17,734,106.36
Grain farming	66.8	\$6,451,362.72
Vegetable and melon farming	5.7	\$593,705.72
Fruit farming	7.9	\$388,452.86
Tree nut farming	8.1	\$536,012.60
Greenhouse, nursery, and floriculture production	55.6	\$4,720,574.93
All other crop farming	117.2	\$2,367,427.39
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	672.8	\$20,051,163.65
Dairy cattle and milk production	12.1	\$2,419,426.79
Poultry and egg production	2.1	\$709,498.38
Animal production, except cattle and poultry and eggs	40.3	\$1,428,550.19
Commercial logging	5.5	\$241,580.29
Commercial hunting and trapping	11.2	\$227,124.39
Bread and bakery product, except frozen, manufacturing	62.5	\$9,081,293.04
Frozen cakes and other pastries manufacturing	1.9	\$295,224.52
All other food manufacturing	107.2	\$38,781,458.14
All other industrial machinery manufacturing	12.9	\$2,779,025.58
Veterinary services	88.7	\$9,178,198.30
Landscape and horticultural services	303.2	\$14,565,957.47

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Leavenworth County, the retail sector was omitted.